

## HIGH-EFFICIENCY MICROARRAY PRINTING DEVICE

### ABSTRACT OF THE DISCLOSURE

[0101] This invention provides improved components (e.g. array "pins", print head, substrate platen, print head platen, and the like) for microarray printing devices as well as microarray printing devices incorporating such components. In one embodiment, this invention provides a microarray print head comprising a plurality of glass or quartz spotting capillaries disposed in a support that maintains a fixed spacing between the spotting capillaries and that permits the spotting capillaries to move in a direction parallel to the long axis of the capillaries.

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